



Iso-Flex® 750U-HL High-load Deck Coating System

SYSTEM DESCRIPTION

Iso-Flex 750U-HL deck coating systems are cold, liquid-applied, polyurethane elastomeric deck coatings. The high-load systems consist of a primer (as recommended by the manufacturer), a two-part urethane membrane, an aggregate-loaded urethane intermediate coat and a lockcoat.

Standard Iso-Flex 750U-HL systems provide effective, economical solutions for most typical conditions:

750U-HL MVT For light to medium vehicular traffic.

750U-HL HVT For heavy vehicular traffic exposure.

When the coating system is directly exposed to sunlight use Iso-Flex 750 Top Coat Aliphatic (AL). For all other areas use Iso-Flex 750 Top Coat Aromatic (AR).

PACKAGING

Iso-Flex 750 Base Coat and 750 Intermediate Coat are available in 5 gallon (18.9 liter) units, 750 Top Coats are available in 5 gallon (18.9 liter) and 53 gallon (200 liter) units.

STANDARD COLOR

Base coat/Top coat: Concrete Gray

BASIC USES

Typical applications for Iso-Flex 750U-HL traffic deck coating systems include ramps, turn areas, entrances and exits for parking garages. These systems will provide a high traction surface under both pedestrian and vehicular traffic.

ADVANTAGES

- The system develops a continuous bond to properly prepared substrates and protects from water and/or chloride penetration. The system is also resistant to most common chemicals.
- The high-load systems have excellent physical properties, including weather and abrasion resistance.
- System components are capable of curing at temperatures below 40°F (5°C).

RECOMMENDED MILLAGES

Recommended mil thickness of Iso-Flex 750U-HL systems will vary depending upon service conditions, substrate profile and other environmental factors.


While every project is unique, the following chart provides generalized guidelines.

	Dry Film Thickness*	
	750U-HL (MVT)	750U-HL (HVT)
750 Base Coat	25 mils	25 mils
750 IC	10 mils	15 mils
Sand (16/30 grit)	½ lb/ft²	¾ lb/ft²
750 TC A.L/AR	12 mils	12 mils
Total	47 mils	52 mils

* System millage requirements do not include primer.

LIMITATIONS

- Iso-Flex 750U-HL systems are designed for application in relatively thin mil film thicknesses. Cured membrane mil thickness variations are to be expected due to differences in substrate porosity and profile, as well as the practical tolerance limitations of the application procedures.
- Application must be to clean, sound, dry substrates at temperatures above 40°F (5°C). Curing compounds, form release agents, sealers, or other contaminants may interfere with adhesion.
- Adequate ventilation must be provided as recommended by the manufacturer.

 **SEALANT · WATERPROOFING & RESTORATION INSTITUTE**

Issued to: LymTal International
Product: ISO-Flex 750U-HL High Load Deck Coating System (MVT-HVT)

ASTM D 412: Tensile Strength of Top Coat
750TC Topcoat
Tensile Strength: 2,500 psi; Elongation: 100% Pass ✓

ASTM D 4541: Adhesion of Base Coat
750BC with Primer 750
Pull-off Adhesion: 511 psi Pass ✓

ASTM D 4060: Abrasion Resistance of Top Coat
750TC Topcoat
Abrasion Resistance: 0.03 mgms loss – mgms loss/1,000 cycles Pass ✓

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DECK COATING VALIDATION
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INSTALLATION

Preliminary: Surfaces to receive Iso-Flex 750U-HL systems must be clean, dry, sound, relatively smooth and free of voids, ridges and sharp projections. New concrete surfaces should be properly cured as recommended by manufacturer.

Surface Preparation: Shotblasting must be employed to provide a sound, clean substrate. In areas where shotblasting is not feasible, consult the manufacturer for other methods of surface preparation.

Detailing: Joints or cracks should be pretreated prior to general application by routing, grinding and sealing, or overbanding with compatible Iso-Flex products as recommended by the system manufacturer. Terminations and penetrations should also be sealed prior to general application.

Application: The various components of the Iso-Flex 750U-HL system shall be applied in accordance with manufacturer's specific recommendations.

PRECAUTIONS

To ensure safe installation of the Iso-Flex 750U-HL system, please refer to the Material Safety Data Sheets (SDS) that accompany each product shipment.

MAINTENANCE

Iso-Flex 750U-HL systems may be easily repaired using methods recommended by the manufacturer.

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

Revised 01/22

TECHNICAL DATA FROM LABORATORY TESTS (Field Properties May Vary)					
Property	Test Method	750 BC	750 IC	750 TC AL	750 TC AR
Weight Per Gallon		9.5 lbs/gallon	9.2 lbs/gallon	9.0 lbs/gallon	9.3 lbs/gallon
Hardness (Shore A)	ASTM D2240	70-80	80-90	80-90	80-90
Viscosity @ 77°F (25°C)	ASTM D2196 #4 RVT @ 20 rpm	4000-8000 cps	1000-2000 cps.	1500-3000 cps	1500-3000 cps
Flash Point	ASTM D93	169°F (76.1°C)	> 200°F (93°C)	110°F (43.3°C)	110°F (43.3°C)
Cure Time @ 77°F (25°C)	ASTM C920	6-8 hours	6-8 hours	24 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev CS 17 Wheel 1000g	Loss 0.01 grams	n/a	Loss 0.03 grams	Loss 0.03 grams
Weathering Resistance	ASTM G53-83	Yellowing, Chalking	Yellowing	No Visual Effect	Yellowing
Permeability	ASTM E398	1.6 perms	n/a	1.6 perms	1.6 perms
Peel Adhesion	ASTM C794	50 pli	n/a	n/a	n/a
Tensile Strength	ASTM D412	1200 psi	2000 psi	2500 psi	2500 psi
Ultimate Elongation	ASTM D412	350%	150%	100%	100%
Tear Resistance	ASTM D1004	100 pli	180 pli	200 pli	200 pli
% Yield (Wet→Dry)		96%	99%	80%	78%
Pot Life @ 77°F (25°C)	ASTM C603	30 mins	25-30 mins	1-2 hours	1-2 hours
Shelf Life @ 77° F (25°C)		6 months	6 months	6 months	6 months
Chemical Resistance	No effect on System from Common Oils, Salts, Alkalies, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits				

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